SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE
Accelerating SOF Innovation

LtCol Ray Feltham  Program Manager
FAMILY SPECIAL OPERATIONS VEHICLES
Vehicle Lifecycle Overview

Vehicles in Concept
Joint Light Tactical Vehicle (JLTV) SOF Mods
Purpose Built Non-Standard Commercial Vehicle
Joint Armored Ground Mobility System (JAGMS)

Vehicles In Production
Ground Mobility Vehicle 1.1 (GMV 1.1)
Non-Standard Commercial Vehicle
Light Tactical All Terrain Vehicle - Diesel

Vehicles in Sustainment
GMV 1.0
MRAP-ATV (M-ATV)
MRAP - RG33 A1
MRAP - RG33 AUV

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Lightweight Tactical All Terrain Vehicle (LTATV)

- The LTATV is a SOF modified commercial off the shelf (COTS) lightweight vehicle that is internally air transportable via V-22, H-53 and H-47 aircraft. It consists of two and four seat variants with the ability to change configuration based upon mission and/or threat. It's intended to perform a variety of missions to include offset infiltration, reconnaissance and medical evacuation.
- Areas of Interest:
  - Hybrid/Electric
  - Autonomous Capabilities
  - Increased Payload
  - Lifecycle Improvement
  - Modular Kit Capabilities (weapons, tracks, etc.)

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### ACQUISITION STRATEGY

- Non Developmental Item (NDI)
- Follow-On Contract: Full & Open Competition

### PERIOD OF PERFORMANCE

- Sustainment ongoing
- Follow-On Contract: FY20 – TBD

### MILESTONES

- Pure Fleet Diesel Variant: 4QFY18

### POINT OF CONTACT

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

### FUNDING

- ~$6.5M/year

### CURRENT CONTRACT/OEM

- Polaris Defense (Medina, MN)
- 5 Year IDIQ: July 2015 – July 2020
Non Standard Commercial Vehicle (NSCV)

- The current NSCV is based on commercial vehicle platforms that are enhanced with mission-specific modifications to increase protection, mobility performance, and durability.

- Areas of Interest:
  - Lightweight Armor Materials
  - Lightweight Vehicle Components/Mods
  - C4ISR Integration Cost Reductions
  - Suspension Technology
  - Lifecycle Improvement

### ACQUISITION STRATEGY
- NSCV2: Full & Open Competition
- P-Built: Competitive OTA for Prototype (NAMC Consortium), w/ Follow-on Production

### PERIOD OF PERFORMANCE
- Sustainment Ongoing
- Purpose Built NSCV: FY20 Prototype OTA Award

### MILESTONES
- NSCV1 Production End: July 18
- NSCV2 IOT&E: March 18
- NSCV2 PQT Completion: 3QFY19

### POINT OF CONTACT
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

### FUNDING
- ~$35M/year (average)

### CURRENT CONTRACT/OEM
- Battelle Memorial Institute (Columbus, OH)
- 7 Year IDIQ: July 2016 – July 2023
Ground Mobility Vehicle 1.1 (GMV 1.1)

- The GMV 1.1 is a highly mobile CH-47 internally transportable Special Operations combat vehicle with the operational flexibility to support a wide range of lethal and non-lethal Special Operations missions and core activities.
- Areas of Interest:
  - Lightweight Armor Materials
  - Hybrid/Electric Powertrain
  - Vehicle Weight Reduction
  - Terrain Specific Tire Alternatives
  - C4ISR Integration Cost Reductions

**ACQUISITION STRATEGY**
- Full and Open Competition
- Single Vendor Award
- Produce & Evaluate Test Vehicles
- Full-Rate Production Decision

**PERIOD OF PERFORMANCE**
- PoP: Aug 13 - Aug 20
- 5 Years Production

**MILESTONES**
- IOT&E: November 2015
- First Unit Equipped: April 2016
- Full Rate Production Decision: March 17
- Initial Operational Capability: September 2020

**FUNDING**
- FY20 is last year of investment funding
- $16M/yr sustainment funding through FYDP

**CURRENT CONTRACT/OEM**
- General Dynamics Ordnance and Tactical Systems (St. Petersburg, FL)
- 7 Year IDIQ: August 2013 – August 2020

**POINT OF CONTACT**
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

**KEY FACTS**
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**POINT OF CONTACT**
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482
Mine Resistant Ambush Protected Vehicle (MRAP/M-ATV)

- The Mine Resistant Ambush Protected (MRAP) family of vehicles currently consists primarily of the MRAP All Terrain Vehicle (M-ATV), and RG-33-A1. Vehicles are modified to meet SOF unique requirements.
- Areas of Interest:
  - Active Reset Operations
  - Obsolescence Management
  - Sustainment Cost Reductions
  - C4ISR Integration Cost Reductions

ACQUISITION STRATEGY
- Original Production (JPO MRAP Contracts)

PERIOD OF PERFORMANCE
- Sustainment ongoing
- Reset kicked off in FY19

MILESTONES
- Post Milestone C
- Sustainment/Disposal Phase

POINT OF CONTACT
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

FUNDING
- ~$88M/year

CURRENT CONTRACT/OEM
- No Active OEM Production Contracts
- FSR Support: Mantech / Lockheed Martin
The Ground Mobility Vehicle 1.0 (GMV 1.0) is a medium class High Mobility Multipurpose Wheeled Vehicle (HMMWV) with Special Operations - Peculiar (SO-P) modifications. Several variants have supported Special Operations Operators reliably for over 12 years in contingency and combat operations.

Areas of Interest:
- Active Reset Operations
- Lightweight Armor Materials
- Suspension & Payload Improvements

ACQUISITION STRATEGY
- Modified Service Common (MFP-2)

PERIOD OF PERFORMANCE
- Sustainment / Divestiture
- Reset as necessary

MILESTONES
- Production ended in FY06
- Vehicle Reset has been continuous since FY09

CURRENT CONTRACT/OEM
- No Active OEM Contracts
- Reset: Letterkenney Army Depot (LEAD)

FUNDING
- $2M for FY 19 reset
- Annual Prioritization Process for Reset
- Continue sustainment through OCO

POINT OF CONTACT
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482
Joint Light Tactical Vehicle (JLTV)

- Joint Program Office (JPO) – USA/USMC
- To be fielded to SOF Units by Services
- The JLTV's intent is to restore light tactical mobility to combat arms, combat support and combat service support/sustainment of forces by providing: protection (scalable armor); transportability (rotary/fixed wing, expeditionary sealift); mobility (off road, urban areas, all weather); sustainment (reliability, maintainability, onboard and exportable power) and Networking (integrated C4)

Targeting limited SOF modifications (C4I/ECMS)

**ACQUISITION STRATEGY**
- Modified Service Common (P-2)
- SOF Mod Requirements Generation ongoing

**PERIOD OF PERFORMANCE**
- FY20 & beyond

**MILESTONES**
- SOF Operational Assessment – 4QFY19-1QFY20
- SOF Mod Design/Testing – FY20

**POINT OF CONTACT**
- TILO (tilo@socom.mil)

**FUNDING**
- TBD (awaiting OP Assessment)

**CURRENT CONTRACT/OEM**
- Oshkosh Corporation (JPO)
- No Active SOCOM Contracts

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Joint
Armored Ground Mobility System (JAGMS)

• The JAGMS is a rapidly-deployable armored personnel carrier, providing heavy weapons capability, ballistic protection, and increased transportability options for SOF.

• Key Requirements (anticipated):
  – Blast & Ballistic Protection
  – Seating for 9-10 passengers
  – C-130 Transportable
  – 4,500+lb Payload Capacity
  – Increased Situational Awareness
  – Heavy Weapons Capability (RWS)

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<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
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<tbody>
<tr>
<td>• TBD (Market Research)</td>
<td>• FY22/23 kickoff (estimated)</td>
<td>• Requirements Generation &amp; Market Research – FY19/20</td>
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<td>• FY23/24 Testing/Validation</td>
<td>• New Fielding – FY24/25</td>
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### PM FOSOV Technology Insertion Recap of Opportunities

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<th>Active Production</th>
<th>Active Sustainment</th>
<th>Vehicles in Concept</th>
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<td>• NSCV</td>
<td>• LTATV (Lifecycle Replacement every 3-4 yrs)</td>
<td>• Purpose Built NSCV</td>
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- **Lightweight Armor for Ground Mobility Platforms**
  - Current armor solutions are heavy, limit available payload options and decrease vehicle durability.
  - Lightweight and cost effective technologies that can replace current armor solutions.
- **Lightweight Vehicle Components/Mods**
- **Low SWAP / High Output Alternators**
- **Hybrid/Electric Vehicle Capabilities**
- **Alternative Fuel Sources**
- **Autonomous / Semi-Autonomous Vehicle Capabilities**
- **Semi-Active Suspension Capabilities**
- **Advanced Situational Awareness (M-ATV/AGMS) – Battlefield Awareness**
- **Telepresence for remote vehicle operation and/or Situational Awareness (SA)**
- **Augmented Reality Maintenance Capabilities**